



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005



Job No.: CTCE/BBMP/W.No.18/AA/CEMENT/2014-15

Date: 11.08.2014

TEST REPORT

CLIENT	:	Asst. Executive Engineer, Hebbal Sub Division, BBMP, Bangalore.
AGENCY	:	M/s. Anand Associates, Bangalore.
NAME OF THE WORK	:	Construction of Compound Wall of road widening at Anjanmurthy Circle in Ward No.18, BBMP, Bangalore.
REFERENCE	:	EE/H/AE/WO/95/2012-13 Dated: 08.07.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY



The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	460 Minutes	Not More than 600 Minutes
3	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm

Note:

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- ⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.
- ⇒ Any Query regarding the report must be reported within 30 days from the date of testing.



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Job No.: CTCE/BBMP/W.No.18/AA/SAND/2014-15

: 11.08.2014

TEST REPORT ON FINE AGGREGATES (SAND) IS 383-1970 (RA- 2002)



Client : Asst. Executive Engineer, Hebbal Sub Division, BBMP, Bangalore.
Agency : M/s. Anand Associates, Bangalore.
Name of Work : Construction of Compound Wall of road widening at Anjanmurthy Circle in Ward No.18, BBMP, Bangalore.
Reference : EE/H/AE/WO/95/2012-13 Dated: 08.07.2014
Date of Testing : 11.08.2014
Material : Sand

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	63	6.30	6.30	93.7	90-100
2.36	102	10.20	16.50	83.5	75-100
1.18	243	24.30	40.80	59.2	55-90
600 Micron	215	21.50	62.30	37.7	35-59
300 Micron	175	17.50	79.80	20.2	8-30
150 Micron	115	11.50	91.30	8.7	0-10

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: 11.08.2014

TEST REPORT ON COARSE AGGREGATES IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Hebbal Sub Division, BBMP, Bangalore.
Agency : M/s. Anand Associates, Bangalore.
Name of Work : Construction of Compound Wall of road widening at Anjanmurthy Circle in Ward No.18, BBMP, Bangalore.
Reference : EE/H/AE/WO/95/2012-13 Dated: 08.07.2014
Date of Testing : 11.08.2014
Material : 40mm Aggregates

Total Wt. of Aggregates in gms 10000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	150	1.50	1.50	98.50	95-100
20	5645	56.45	57.95	42.05	30-70
10	2620	26.20	84.15	15.85	10-35
4.75	1275	12.75	96.90	3.10	0-5

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Job No.: CTCE/BBMP/W.No.18/AA/CUBE/2014-15



22.09.2014

TEST REPORT ON CONCRETE CUBES

Client : Asst. Executive Engineer, Hebbal Sub Division, BBMP, Bangalore.
Agency : M/s. Anand Associates, Bangalore.
Name of the work : Construction of Compound Wall of road widening at Anjanmurthy Circle in Ward No.18, BBMP, Bangalore.
Reference : EE/H/AE/WO/95/2012-13 Dated: 08.07.2014
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₁₅
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	25.08.2014	22.09.2014	8.264	377.9	16.80
2	25.08.2014	22.09.2014	8.147	362.5	16.11
3	25.08.2014	22.09.2014	8.327	389.7	17.32

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